

Applicants: Robert J. Winchester, et al.  
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-17. (canceled)
18. (Currently amended) A method for determining whether an-a non-peptidyl agent inhibits the activation of a CXCR4 receptor by SDF-1 comprising:
  - (a) contacting a human or mouse cell expressing the CXCR4 receptor with the non-peptidyl agent in the presence of SDF-1 under conditions permitting activation of a CXCR4 receptor by SDF-1 in the absence of the agent, wherein the cell, the SDF-1, and the CXCR4 are derived from human or mouse;
  - (b) determining the amount of CXCR4 receptor activation resulting from step (a); and
  - (c) comparing the amount of activation so measured to the amount of CXCR4 receptor activation measured in the absence of the agent, wherein an amount of CXCR4 receptor activation in the presence of the agent lower than that in the absence of the agent indicates that the non-peptidyl agent inhibits the activation of a CXCR4 receptor.
19. (previously presented) The method of claim 18, wherein the cell is a lymphocyte or a monocyte.